



5.5" FHD Multi Format Viewfinder Monitor

Operation Manual_ver 1.1

VFM-058W

TVlogic Always ON-AIR



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FCC (Federal Communications Commission)

This equipment has been tested and found to comply with the limits for class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interface when the equipment is operated in a commercial environment.

This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential to correct the interference at his own expense

CAUTION: Change or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

Disposal of Old Electrical & Electronic Equipment

(Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product or on its packing indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequence for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources.

1. Caution

- Always use set voltage. (DC 6.8~12V)
- When using a DC Adapter other than the one supplied by the manufacturer, please be advised that the adapter with DC 12V/3A ~ 6A can be compatible with the monitor.
- All operating instructions must be read and understood before the product is operated. These safety and operating instructions must be kept in safe place for future reference.
- All warnings on the product and in the instructions must be observed closely.
- All operating instructions must be followed.
- Do not use attachments not recommended by the manufacturer. Use of inadequate attachments can result in accidents.
- This product must be operated on a power source specified on the specification label.
- If you are not sure of the type of power supply used in your home, consult your dealer or local power company. For units designed to operate on batteries or another power source, refer to the operating instructions.
- The power cords must be routed properly to prevent people from stepping on them or objects from resting on them. Check the cords at the plugs and product.
- In case of using other 12V DC adapters instead of the standard adapter provided by the manufacturer, please check the proper load capacity (or current capacity) and use an adapter with stable voltage.
- Do not overload DC outlets or extension cords. Overloading can cause or electric shock.
- Never insert an object into the product through vents or openings. High voltage in the product, and inserting an object can cause electric shock and/or short internal parts. For the same reason, do not spill water or liquid on the product.
- Do not attempt to service the product yourself. Removing covers can expose you to high voltage and other dangerous conditions. Request a qualified service person to perform servicing.
- If any of the following conditions occurs, unplug the power cord from the DC outlet, and request a qualified service person to perform repairs.
 - a. When the power cord or plug is damaged.
 - b. When a liquid was spilled on the product or when objects have fallen into the product.
 - c. When the product has been exposed to rain or water.
 - d. When the product does not operate properly as described in the operating instructions. Do not touch the controls other than those described in the operating instructions. Improper adjustment of controls not described in the instructions can cause damage, which often requires extensive adjustment work by a qualified technician.
 - e. When the product has been dropped or damaged.
 - f. When the product displays an abnormal condition. Any noticeable abnormality in the product indicates that the product needs servicing.
- In case the product needs replacement parts, make sure that the service person uses replacement parts specified by the manufacturer, or those with the same characteristics and performance as the original parts. Use of unauthorized parts can result in fire, electric shock and/or other danger.
- Upon completion of service or repair work, request the service technician to perform safety checks to ensure that the product is in proper operating condition.

1. Caution

- When mounting the product on a wall or ceiling, be sure to install the product according to the method recommended by the manufacturer.
- Unplug the power cord from the DC outlet before cleaning the product. Use a damp cloth to clean the product. Do not use liquid cleaners or aerosol cleaners.
- Unplug the power cord from the AC outlet if you do not use the product for considerably long time.
- Do not use the product near water, such as bathtub, washbasin, kitchen sink and laundry tub, swimming pool and in a wet basement.
- Keep the product away from direct rays of the Sun-light.
- Do not place the product on an unstable cart, stand, tripod or table. Placing the product on an unstable base can cause the product to fall, resulting in serious personal injuries as well as damage to the product. Use only a cart, stand, tripod, bracket or table recommended by the manufacturer or sold with the product. When mounting the product on a wall, be sure to follow the manufacturer's instruction. Use only the mounting hardware recommended by the manufacturer.
- When relocating the product placed on a cart, it must be moved with the utmost care.
- Sudden stops, excessive force and uneven floor surface can cause the product to fall from the cart.
- The vents and other openings in the cabinet are designed for ventilation. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a bed, sofa, rug or other similar surface, since they can block ventilation openings. This product is not designed for built-in installation; do not place the product in an enclosed place such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions are followed.
- In case of installation the product on the rack, the inside of the product would be overheated due to heat from other devices near by and the decrease of air circulation, which could damage to the monitor. To prevent the damage, please have enough space for the monitors and use fan to avoid heat and maintain the operating temperature. (Refer to the specication of the product).
- The LCD panel used in this product is made of glass. Therefore, it can break when the product is dropped or applied with impact. Be careful not to be injured by broken glass pieces in case the LCD panel breaks.
- Keep the product away from heat sources such as radiators, heaters, stoves and other heat generating products (including amplifiers).

2. Main Features

VFM-058W Monitor contains the following features:

- **Compatible with various SDI signals formats (SD/HD/3G)**

- This product is compatible with various SDI signals - 480i, 576i, 720p, 1035i, 1080i, 1080p, 1080psf

- **HDMI(with HDCP) Signal**

- HDMI(w/ HDCP) input is available without any other accessory.

- **HDMI To SDI / SDI To HDMI Conversion Output**

- This product features an HDMI To SDI conversion output so that video source from HDMI In terminal can be output through SDI Out terminal.
- The SDI To HDMI conversion output is also supported. The video source from SDI In terminal can be output through HDMI Out terminal.

- **All-in-one type system**

- Slim and all-in-one type monitor that requires no additional accessories, for optimized space utilization.

- **Wide Screen / 24Bit RGB Interface Full HD Panel**

- **Temperature Adaptive Color**

- The VFM-058W provides a self-adjustment function for white balance(or color temperature) utilizing internal sensor that measures the temperature of the LCD panel.

- **Waveform/Vectorscope/Audio Level Meter Function**

- Waveform & Vector Scope
- Embedded Audio Level Meter

- **Audio Out**

- Internal Speaker (Embedded audio)
- Stereo Audio Out through phone Jack

- **Knob Control**

- Easy to adjust user configuration using the control knob on the top of the monitor.

- **BLUE ONLY / MONO / Focus Assist / H/V Delay Function**

- **Range Error/Luma(Y') Zone Check(Color/ Zebra Type) Function**

- **Internal Pattern Generator (0~100% Gray/ ColorBar+Plug)e**

- **Markers & Safety Areas**

- Center Marker, Safety Area Marker, Marker Mat, Marker Size, Fit Marker, Thickness Adjustment function

- **Pixel To Pixel/Zoom Function**

- Used to display the original image resolution without scaling to match a certain resolution or an aspect ratio.
- Select 'Pixel to pixel' to display unscaled images, and select 'Zoom' to enlarge the original image.
- Zoom Scroll Function (Left/Right, Top/Bottom)

- **Power**

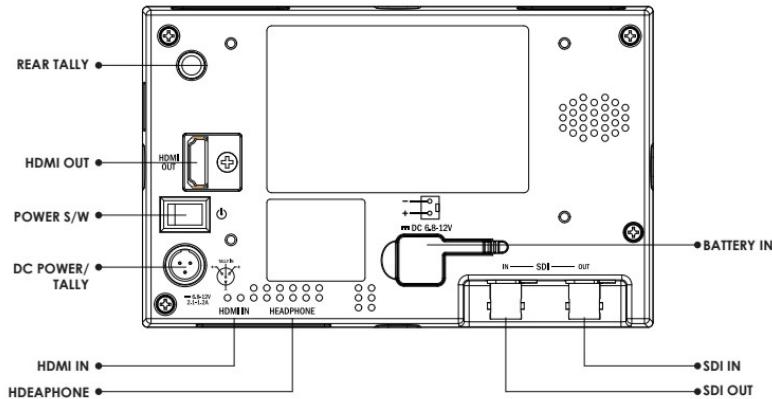
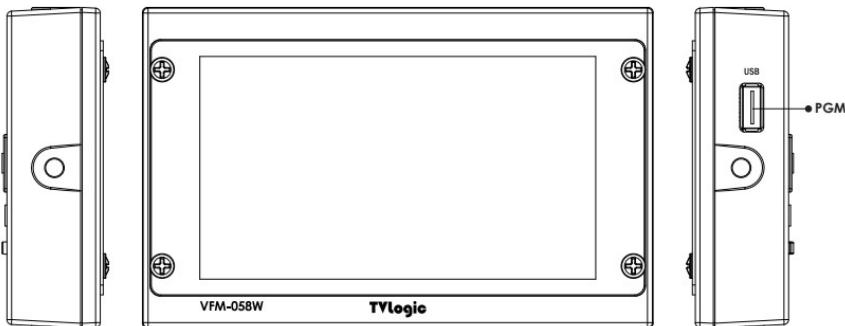
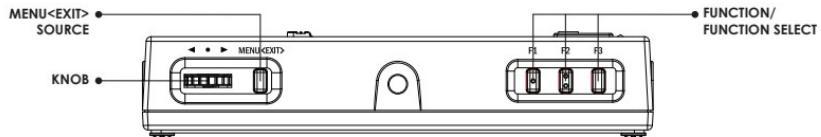
- Essentially, the product is powered by a normal DC source.
- The product can be battery-powered.
- * VFM-058W : DC 6.8~12V (Typical)
- * When using a DC Adapter other than the one supplied by the manufacturer, please be advised that the adapter with DC 12V/3A ~ 6A can be compatible with the monitor.

- **Additional features**

- Camera Mounting Hole x 4, Screen Tally Function, VESA Mounting Standard, 450cd/m² Brightness, 1,000 : 1 Contrast, OSD user interface and Rack Mountable.

3. Controls & Functions

FRONT/SIDE/REAR/TOP



3. Controls & Functions

TOP

- [MENU/EXIT/SOURCE] Button

- Used to activate the OSD menu.
- When the OSD menu is activated, press this button to exit from the menu.
- Press the button for more than 2 seconds to activate Input Select menu. (SDI, HDMI)
- Use the Knob to change the Input Signal.

- [UP/DOWN/ENTER] Knob

- Used to move within the menu when OSD menu is activated, and is also used to decrease or increase the value of the selected feature.
- Press the knob to select the main menu and the sub menus.

- [F1]~[F3] Button

- Press the button for less than 2 seconds to activate the function.
- Press the button for more than 2 seconds to activate Function Select menu. (Scan, Aspect, H/V delay, etc.)
- Press the button for more than 2 seconds to indicate previously selected function. Use the Knob to change the function.

SIDE / BOTTOM

- [USB]

- This terminal is used to upgrade the firmware or color calibration made by TVLogic.

- [HDMI IN]

- Signal input terminal for HDMI signal.

- [HEADPHONE] (Phonejack)

- Used for Stereo Audio Output through Phone Jack. (video signals with embedded audio only)

REAR

- [REAR TALLY]

- Activates same as [SCREEN TALLY].

- [HDMI OUT]

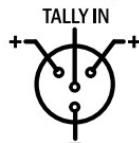
- Signal output terminal for HDMI signal.
- Video source from SDI input terminal can be converted to HDMI format.

- [POWER] Switch

- Used to turn the power on and off.

- [DC POWER / TALLY] (XLR 4P)

- Tally Signal In/Out
- Battery Power Input terminal for DC 12V.
- * Rated Power Input : DC 12V (1.5A)
- * When using a DC Adapter other than the one supplied by the manufacturer, please be advised that the adapter with DC 12V/3A ~ 6A can be compatible with the monitor.



- [Battery In]

- Battery Power Input :DC 6.8~12V

- [SDI IN] (BNC)

- Signal input terminal for HD/SD/3G SDI signal.

- [SDI OUT] (BNC)

- Signal output terminal for HD/SD/3G SDI signal.
- Video source from HDMI input terminal can be converted to SDI format.

<Warning!!>

When using the product make sure to ground, whenever possible, before connecting the input signal cable in order to prevent any possible damage to the product or connected devices. The damage may include signal noise, malfunction of main board or display panel. And the connected devices such as camera or video source player may also be influenced through signal cable. Please check if the AC power source and the power extender or power distributor is grounded.

4. Menu Tree & Adjustment

[1] Menu Tree

- OSD(On-Screen Display) Menu helps to use various different functions.
- This Picture is the menu structure for VFM-058W.



[3] Menu Control Sequence

- Menu control sequence follows the order below.

1. Press MENU button to activate the OSD menu.
2. Move to a desired menu using the Knob.
3. Press the Knob to select a menu and move to select a sub-menu by scrolling the Knob.
4. Press the Knob to select the desired sub menu. (The selected sub-menu will be highlighted)
5. Press the ENTER button or the MENU button to save the new value after adjusting the value by scrolling the Knob.
6. Press MENU button to return to previous menu and if there is no previous menu, the OSD menu will be removed from the screen.

[2] Menu Control

- User may control various functions using the MENU button and the Knob on the top of the monitor.

5. Menu Operations

[1] Picture



[2] Color



• Brightness

- Used to set the brightness(=offset) level from -100 to 100.

• Contrast

- Used to set the contrast(gain) level from -100 to 100.

• Chroma

- Used to set the saturation level from -50 to 50.

• Phase

- This function is not supported since the VFM-058W doesn't support Analog input signal.

• Aperture

- Used to set the sharpness level from -12 to 12.

• NTSC Setup

- This function is not supported since the VFM-058W doesn't support Analog input signal.

• Knob Lock

- Locks the Knob control(APERTURE, BRIGHT, CHROMA, CONTRAST, VOLUME).

• Color Temp.

- Controls color temperature and allows instant access to preset color temperature settings.
- Available color temperatures are 3200K, 5000K, 5600K, 6500K, 9300K and User 1/2/3.
- In User 1/2/3 modes, user can define custom RGB GAIN and BIAS (=Offset) values.

• Gain Red/Green/Blue

- Used to set R/G/B Gain(or Picture, Contrast) level from -256 to 255.
- * Only available in User 1/2/3 mode.

• Bias Red/Green/Blue

- Used to set R/G/B Bias(or Offset, mainly affects on Black level) from -100 to 100.
- * Only available in User 1/2/3 mode.

• Color Copy

- Used to copy the R/G/B Gain value of pre-stored color temperature settings.
- In User mode, find and select the color temperature and press the Knob to copy and apply the Gain value to GAIN RED, GAIN GREEN, GAIN BLUE.
- * Only available in User 1/2/3 mode.

• Temperature Adaptive Color

- [On] : Used to measure and compensate the color temperature shift caused by panel temperature variation.
- [Off] : Used to apply preset the color temperature setting regardless of the panel temperature.

5. Menu Operations

[3] Marker



This screenshot shows the first page of the Marker menu. It includes a sidebar with icons for various functions like TVLogic, VFM, and others. The main area displays the following settings:

Marker	1/2	TVLogic	VFM-058W
Marker Enable		On	
Marker Type		4:3 ON AIR	
Center Marker		On	
Safety Area		88%	
Fit Marker		Off	
Marker Mat		7	
Marker Color		White	
Thickness		2	

At the bottom are buttons for **MENU**, **Prev.**, **Move**, and **ENT Select**.



This screenshot shows the second page of the Marker menu. It includes a sidebar with icons for various functions like TVLogic, VFM, and others. The main area displays the following settings:

Marker	2/2	TVLogic	VFM-058W
USER Marker H1			1
USER Marker H2			1920
USER Marker V1			1
USER Marker V2			1080

At the bottom are buttons for **MENU**, **Prev.**, **Move**, and **ENT Select**.

• Marker Enable

- Used to activate the Marker function.
- Available marker types are OFF, 16:9, 4:3, 4:3 ON AIR, 15:9, 14:9, 13:9, 1.85:1, 2.35:1, 1.85:1 & 4:3 and USER.

• Center Marker

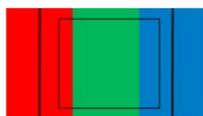
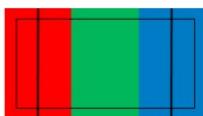
- Displays the Center Marker on the screen.

• Safety Area

- Used to select to display and controls the size and availability of the Safety Area.
- Available sizes are 80%, 85%, 88%, 90%, 93%, 100%, EBU ACTION 16:9, EBU GRAPHIC 16:9, EBU ACTION 14:9, EBU GRAPHIC 14:9, EBU ACTION 4:3 and EBU GRAPHIC 4:3.

• Fit Marker

- Used to activate or inactivate the Fit Marker function.
- When the Marker type is selected in the Marker menu, a border line of the Safety Area will be displayed inside the Marker.Images below show the difference between Fit Marker ON and OFF.



• Marker Mat

- Used to set the darkness level outside of the MARKER area from OFF(transparent) to 7(Black).
- The bigger the value, the darker the color.

• Marker Color

- Used to set the color of the MARKER lines.
- Available colors are white, gray, black, red, green and blue.

• Thickness

- Used to set the thickness of the MARKER lines.
- Thickness level is from 1 to 7 by the pixel unit.

• USER Marker H1

- Used to set the position of the first horizontal marker line.
- Displayed when the MARKER menu is set to USER.

• USER Marker H2

- Used to set the position of the second horizontal marker line.
- Displayed when the MARKER menu is set to USER.

• USER Marker V1

- Used to set the position of the first vertical marker line.
- Displayed when the MARKER menu is set to USER.

• USER Marker V2

- Used to set the position of the second vertical marker line.
- Displayed when the MARKER menu is set to USER.

5. Menu Operations

[4] Display/Video



• Scan

- Used to change the Scan mode. Scroll up and down using the Knob and the mode will change as the following sequence. [Zero Scan] -> [Over Scan] -> [Pixel-To-Pixel] -> [User Aspect]
- * [USER ASPECT]: User can control the aspect ratio by adjusting width and height of the display.
- See section "7. Other Functions [1] User Aspect" for more information.

• Aspect

- Used to change the Aspect Ratio.
- Regardless of the original Aspect ratio of the Input Signal, the Aspect Modes are changed in the follow sequence. : [16:9][4:3][2.35:1][1.85:1][15:9][16:10][Auto]
- * [Auto] mode enables the Aspect Ratio of the output signal to be synchronized to the original Aspect Ratio of the input signal.

• H/V Delay

- Used to monitor the Blanking area of H sync and V sync.

• Blue Only

- Used to switch in the order of [Off]-[Blue Only]-[Mono]-[Off].
- Press the button to remove red and green components from the input signal and display blue component only.
- Press the button again to switch to monochrome mode which has no chroma signal.

• User Aspect Horizontal/User Aspect Vertical

- Activated only when the [SCAN] mode is set to [User Aspect].
- User can adjust the Horizontal and Vertical size of the screen.
- See section "7. Other Functions [1] User Aspect" for more information.

• 3G Format

- Used to select 3G-SDI A/B input format among NORMAL MODE(AUTO - A 422 10BIT_YCbCr 50/60P), A 444 10/12BIT_YCbCr, A 444 10/12BIT_RGB, A 422 12BIT_YCbCr, B 444 10/12BIT_YCbCr, B 444 10/12BIT_RGB, B 422 12BIT_YCbCr, B 422 10BIT_YCbCr 50/60P.
- In NORMAL MODE, automatically detected when Payload signal is contained.

• H/V Flip

- Allows the displayed image to be flipped horizontally or vertically.
- This feature provides flexible mounting options for camera operators.
- Activates in the order : [H Flip]-[V Flip]-[H/V Flip]

5. Menu Operations

[4] Display/Video



• Zoom

- Used to magnify the image up to 90% on a pixel basis and display on full screen.
* (e.g., 10% Zoom : If the input signal's resolution is 1920 x 1080, only 90% (1728(H) x 976(V)) of the image would be shown on full screen without the remaining 10% (192(H) x 108(V)) of the image.)

* See section "7. Other Functions -> [4] Zoom" for more information.

• Zoom H/V Scroll

- Activated when [Zoom] mode is selected.
- Used to move the enlarged image to the left/right or Up/Down by using the Knob.

• DSLR Camera Sel.

- Select the DSLR camera to be used with VFM-058W. Available models are [CANON 5D/7D], [SONY A77] and [NIKON D7000].
* DSLR cameras' screen size and aspect ratio of Live / Record / Playback modes vary depending to their manufacturer.

• DSLR SCALE

- This is a special function for CANON/NIKON DSLR cameras.
- Used to scale the image with different resolution as to the operation mode(Live View/Record/ PlayBack) of the camera to fulfill the screen.

* See section "7. Other Functions [8] DSLR SCALE" for more information.

• Focus Assist

- Focus Assist helps the shooters to easily find out the exact area in the picture with good focus, simply by adding colors on the shape or boundaries of the object in the picture.
 - Activates in order of [Mono On]-[Color On]-[Off]
 - * [Color On] : Only the boundary of the area with good focus is displayed with the designated color.
 - * [Mono On] : The boundary of the area with good focus is colored with the designated color, while the rest of the areas(pixels) have only Y'(Luma) signals to be black & white image.
- * See section "7. Other Functions [6] Focus Assist" for more information.

• Focus Assist Color

- Used to select a color for Focus Assist among red, green and blue.
- This feature is available only when the Focus Assist mode is activated.

• Focus Assist Level

- Used to set the edge difference value between the edges in an image.
- Available values are from 0 to 100. Larger the value the more sophisticated the detail detection.
- Designated color is displayed when the difference of the edges exceeds the previously set value.
- This feature is available only when the FOCUS ASSIST mode is activated.

5. Menu Operations

[4] Display/Video



• Screen TALLY On/Off

- Used to set Tally operation according to the input level of TALLY IN terminal which is among the terminals of XLR 4P connector in the rear.

• Screen TALLY Operating Level

- Used to set the input level of Tally operation. (Open&Low : less than 0.6V, High Range : 2.5V to 12V)
- High: Set the level as "High" to activate the Tally and set the level as "Low" to deactivate the Tally.
- Low: Set the level as "Low" to activate the Tally and set the level as "High" to deactivate the Tally.

• Screen TALLY Color

- Used to set Tally color.
- Available colors are Red, Green and Yellow.

• Low Battery Display

- Used to set Low Battery Display function.
- When the battery becomes weak, [Low Battery] sign is indicated on the OSD.

[5] Waveform



• WaveForm/Vector Enable

- Used to activate/deactivate the Waveform which is selected in the Waveform/Vector Type menu.

• WaveForm/Vector Type

- This function sets the Waveform and Vectorscope. Available options are different according to the Input signal.
- Activates in the order: YCbCr: Off - Waveform - VectorScope - Waveform Wide - Waveform YCbCr - RGB(Conv.)-Wave_Vector - Vector_YCbCr - Full Waveform(Y) - Full VectorScope.

• Waveform Intensity

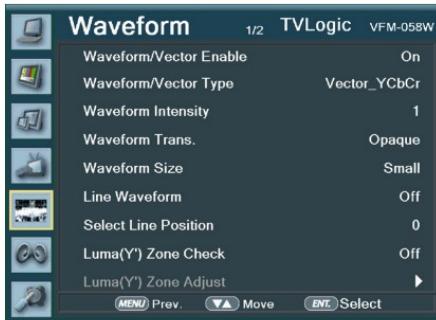
- Used to set the brightness level of the Waveform/ Vectorscope display from 1 to 63.
- The higher the number the brighter the waveform will be.

• Waveform Trans.

- Used to select the transparency option of the Waveform/ Vectorscope between Opaque and Blend.
- Even if the option is set to [Opaque], it will automatically turn to [Blend] when the main OSD overlaps the waveform/vectorscope. And turns back to [Opaque] when the main OSD disappears.

5. Menu Operations

[5] Waveform



• Waveform Size

- Adjust the size of the Waveform or Vectorscope.
- Can select among [NORMAL] and [LARGE].
- * See section "7. Other Function [2] Waveform/Vectorscope" for more information.

• Line Waveform

- This item is utilized to display the entire data or one line data on the Waveform.

• Select Line Position

- Used to select specific Vertical Line for Waveform/Vectorscope.
- This is available when LINE Waveform is activated.
- Use the Knob to select a desired vertical line.
- Control range varies according to the resolution of the input SDI signal.
 - * PAL : Min. 1, Max. 625
 - * NTSC : Min. 1, Max. 525
 - * 720p : Min. 1, Max. 750
 - * 1080i : Min. 1, Max. 1125
 - * 1080p : Min. 1, Max. 1125

• Luma(Y') Zone Check

- Displays the Luma(Y') level of the input image in colors.
- Can select between [Color Pattern] or [Zebra Pattern].
- Each pixel's Y' analyzed and changed to a certain color or zebra pattern according to the Index on the right side of the screen.
- When a pixel's Y' level is under 0%(16), the color / diagonal line will be colored Green.
- When the pixel's Y' level is over 100%(235), the color / diagonal line will be colored Red.
- When the Y' level of a pixel is between 0~100%, the pixel is displayed with Gray, except for selected Luma Zone.
- In the [Color Pattern] mode, a 5% zone of the selected Y' level will be colored Pink(5%) and ±10% will be colored Yellow(-10% from Pink) and Cyan(+10% from Pink).
- In the [Zebra Pattern] mode, ± 5% of the selected Y' Level will be displayed with diagonal lines.

• Luma(Y') Zone Adjust

- Used to set the Y' level to be colored Yellow, Pink and Cyan in [Color Pattern] mode, or to set Y' level zone to be displayed with diagonal lines in [Zebra Pattern] mode simply by scrolling the Knob.
- Available values are 0 ~ 100%.
- * See section "7. Other Function [5] Luma(Y') Zone Check" for more information.

5. Menu Operations

[5] Waveform



• Range Error

- Used to set whether or not to activate Y MAX, Y MIN, C MAX, C MIN, Y PICTURE BLINK and C PICTURE BLINK functions.
- The values of Y MAX, Y MIN, C MAX, C MIN are indicated in Waveform/Vectorscope.
- If [Y PICTURE BLINK] or [C PICTURE BLINK] is enabled, the section of image that exceeds the selected values of Y MAX, Y MIN, C MAX and C MIN shall blink.
- * In the case of RGB input, Range Error is not supported.
- * See section "7. Other Function [7] Range Error" for more information.

• Y Max

- Used to set the maximum Luma(Y') level from 0 to 255.
- Pixels with values exceeding the max Y' level will blink on the screen, and be displayed in red on the Waveform.

• Y Min

- Used to set the minimum Luma(Y') level from 0 to 255.
- Pixels with values exceeding the max Y' level will blink on the screen, and be displayed in red on the Waveform.

• C Max

- Used to set the maximum chroma(C') level from 0 to 255.
- Pixels with values exceeding the max Y' level will blink on the screen, and be displayed in red on the Waveform.

• C Min

- Used to set the minimum chroma(C') level from 0 to 255.
- Pixels with values exceeding the max Y' level will blink on the screen, and be displayed in red on the Waveform.

• Y Picture Blink

- Used to set whether or not to blink pixels with values exceeding Y MAX and Y MIN.

• C Picture Blink

- Used to set whether or not to blink pixels with values exceeding C MAX and C MIN.

5. Menu Operations

[6] Audio



• Volume

- Used to control the output volume for the internal speakers or [AUDIO OUT] on the back of the monitor.
- Control range is from 0 to 30.

• Em. Audio Left/Right

- Used to set embedded audio channel for left audio out of internal speaker or [AUDIO OUT] terminal on the back of the monitor.
- Available values are between CH1~CH16 and Ext..

* In the HDMI mode, Left is set to CH1.

• Em. AUDIO RIGHT

- Used to set embedded audio channel for right audio out of internal speaker or [AUDIO OUT] terminal on the back of the monitor.
- Available values are between CH1~CH16 and Ext..

* In the HDMI mode, Right is set to CH2.

• Audio Level Meter

- Used to set the Level Meter for the embedded audio.
 - Available options are :
 - SDI Input : [Off]-[16CH(Hor.)]-[16CH(Ver.)]
 - HDMI Input: [Off]-[2CH(Hor.)]-[2CH(Ver.)]
- * 16 CH(HOR.) : Displays 8 channels on top left and 8 channels on top right of the screen horizontally.
- * 16 CH(VER.) : Displays 8 channels on center left and 8 channels on top right of the screen vertically.

• Level Meter Display (SDI Only)

- Used to set the display method for audio level meter.
- Available modes are Group and Pair.
- * In the HDMI mode, the mode is set to Pair.

• Level Meter Reference

- Display the default audio level meter value,
- Available options are -18dB and -20dB.
- Audio level meter within selected value turns to green and exceeded audio level is displayed in yellow.
- Audio level exceeding -4dB is displayed in red.

• Level Meter Size

- Used to control the size of the audio level meters.
- Available options are NORMAL and LAGRE.

• Level Meter Decay Time

- Sets the reduction time for max value indication of audio signals.
- Control range is from MIN 0 to MAX 100. Bigger number means a longer display time for max value.

5. Menu Operations

[7] System



• System Default

- Used to initialize OSD values to factory default.

• Back Light

- Used to indicate the backlight level.
- In case of System Default, the value returns to factory default(after color calibration).
- Available values are from 0 to 50.

• Internal Pattern

- Generates ColorBar, Pludge and Grayscale Pattern internally.
 - Selectable range for Gray Pattern is from 0% to 100% with 5% increment.
- * See section "7. Other Function -> [12] Internal Pattern" for more information.

• S/W upgrade

- Used to upgrade the firmware using USB (Thumb drive).
- * See section "7. Other Functions -> [13] Firmware Upgrade" for more information.

• S/W upgrade start

- Used to start S/W upgrade. If USB drive is detected, the firmware upgrade becomes activated.
- * See section "7. Other Functions -> [13] Firmware Upgrade" for more information.

• Firmware Version

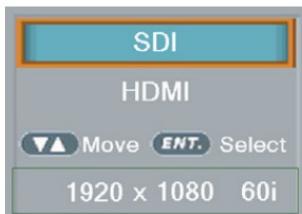
- Displays current firmware version.

• Serial Number

- Displays the serial number of the monitor.

6. Button Functions

[1] Input Button



- VFM-058W unit is capable of processing SDI /HDMI Input signal.

1. Press the [MENU<EXIT] button on the front of the monitor for more than 2 seconds and activate the OSD menu as shown on the below.
 2. Input resolution displays on the bottom of the OSD screen.
 3. Press the [MENU<EXIT] button again to remove the OSD menu from display.
- * If no image displays after selecting the desired input mode, check and make sure that your connection is not lose or disconnected.

[2] Function Key Set Button



- Used to make a quick setting of the Function Key.

1. Press the function button(F1~F3) on the front of the monitor for more than 2 seconds and activate the OSD menu as follows.
2. Move to a desired function with the Knob and press the Knob to select.
3. Once the function is set, press the Function button(F1~F3) to activate the function.

7. Other Functions

[1] User Aspect



- Used to adjust the Width /Height display ratio.

- Select [Aspect] mode in the OSD menu by pressing the function button on the right top of the monitor to activate the [USER ASPECT] mode.
- After the activation, press the Knob to begin controlling. Adjust the ratio using the knob.



- Adjust the ratio using the Knob.
- Control range for width: 0~1920.
- Control range for height : 0~1080.
- The size-adjusted picture always stays in the center of the screen.
- The size can be adjustable with 2 increment and decrement.

To adjust the 16:9 aspect ratio of 1920X1080 resolution into 2.35:1 aspect ratio, adjust the width and height as 1280 x 544.

7. Other Functions

[2] Waveform / Vectorscope

• Waveform Y

- Displays the Luma(Y') component of the input signal into waveform.



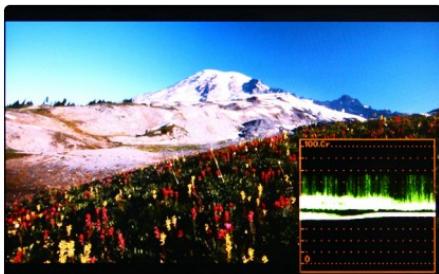
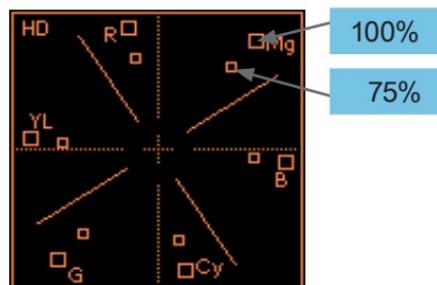
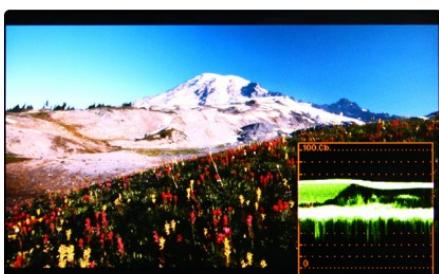
• VectorScope

- Displays the color components 'B-Y' and 'R-Y' of the input signals onto the X-Y axis.
- Two different types of Vectorscopes are displayed according to SD or HD input signals.
- 100% and 75% scales are indicated on the Vectorscope.



• Waveform Cb, Cr

- Displays the Cb, Cr components of the input signal into waveform.



- The Waveform/ Vectorscope function can be used only when the input signal is YUV.

- In the case of RGB input, Waveform RGB is supported.

• Available modes in the YUV signal:

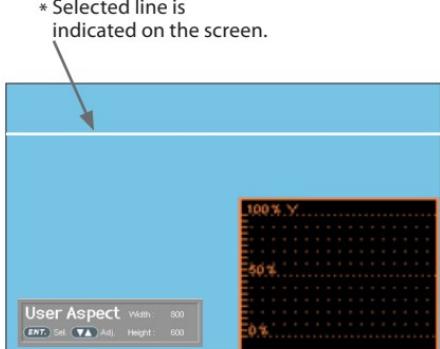
- Waveform Y
- Vectorscope
- Waveform Wide
- Waveform Y Cb Cr
- RGB(Conv.)
- Wave_Vector
- Vector_YCbCr
- Full Waveform(Y)
- Full Vectorscope

7. Other Functions

[3] Line Select (Waveform/VectorScope)

- Used to select specific Vertical Line for WaveForm/VectorScope.

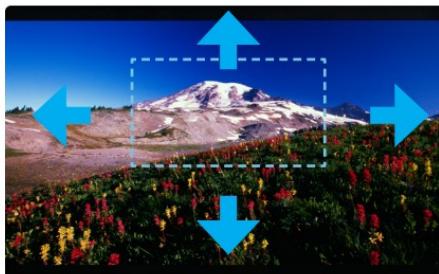
- This is available when LINE WaveForm is activated.
- To activate this feature, go to [Waveform]-[Waveform/Vector]-[Line Waveform]-[Select Line Position] and use the Knob to select a vertical line.
- Selected line is indicated in White on the screen.
- Control range varies according to the resolution of the input SDI signal.
 - * PAL : 0~625
 - * NTSC : 0~525
 - * 720p : 0~750
 - * 1080 i/p : 0~1125



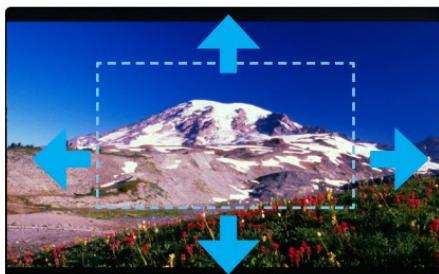
[4] Zoom

- Used to magnify the input signal from 0% to 90%.

- Supports Zoom Width Scroll / Zoom Height Scroll function.
- Zooms IN/OUT focused on the scrolled area.



<ZOOM OFF>



<ZOOM 50%>



<ZOOM 75%>

7. Other Functions

[5] Luma(Y') Zone Check

• Color Pattern Type

- Displays the Luma(Y') level of the input image in colors.
- $Y' \geq 100\%$: Pixels with higher Y' level than 100 turn to red.
- $Y' \leq 0\%$: Pixels with lower Y' level than 0 turn to green.
- Pixels with Y' levels designated by the user are displayed in following colors - yellow, pink, cyan.
- Factory Default Y' (Border line between pink and yellow) level is 75% and the pink color is assigned to pixels with Y' level from 70% to 75%.
- Yellow color is assigned to pixels with Y' level from 75% to 85%, and Cyan from 60% to 70%.

- This function is designed for a better performance in setting the exposure when shooting with vDSLR cameras.



<Luma Zone Check OFF>



<Luma Zone Check ON_Color Pattern Type>

• Zebra Pattern Type

- Displays the pixels with designated Luma(Y') levels with zebra pattern.
- $Y' \geq 100\%$: Pixels with Y' level over 100% turn to red diagonal stripes.
- $Y' \leq 0\%$: Pixels with Y' level under 0% turn to green diagonal stripes.
- User defined Y' levels are displayed as black diagonal stripes.
- Factory Default Y' level is 70% and the pixels with Y' level from 65% to 75% is displayed with zebra pattern.
- Pixels with 10% of Y' level is displayed as black diagonal stripes.
- This function is designed for a better performance in setting the exposure when shooting with vDSLR cameras.



<Luma Zone Check ON_Zebra Pattern Type>

7. Other Functions

[6] Focus Assist

- **Focus Assist function assigns a color to the pixels in the shape or the boundary of the image to inform the user to achieve the best focus.**

- With this function, user can easily differentiate the focused area from the out-focused area especially when shooting with a shallow depth of field.
- Available types are [Mono] and [Color] types.
 - * [Mono] : Background image is mono type.
 - [Color] : Background image is original color type.



<Focus Assist OFF>



<Focus Assist ON>



<Focus Assist ON>

[7] Range Error

- Pixels with Y' or C' levels exceeding the designated levels of Y MAX, Y MIN, C MAX and C MIN shall blink.

- Analyzes the input signal's Luma(Y') and chroma information(C') and if the input signal exceeds the designated minimum value and maximum value, the pixel shall blink. This function is to help the user to easily find out any unwanted level of signals and for a better exposure setting.

- * In the case of RGB input, Range Error is not supported.



<Range Error OFF>



<Range Error ON>

7. Other Functions

[8] DSLR Scale

- This function is designed for some DSLR cameras(Canon 5D, 550D, Nikon D7000 and SONY A77) that output different resolution from the operation mode (preview, recording, playback).
- Select the Camera model in the [Display/Vide]-[DSLR Camera Sel.] menu.
- CANON (5D/550D)
 - In StandBy mode of Canon 5D Mark II, 1080i of HD resolution is indicated. However, real output resolution is 1620x1080 so blank area is displayed on the screen because the 16:9 aspect ratio is not realized.
 - In this case, use DSLR SCALE function to enlarge the 1920x1080 image and display full screen.
 - In Recording mode of CANON 5D Mark II, the output resolution is SD(480p).
 - Although it is SD, the real output resolution is 640x390 not 720x480.
 - DSLR SCALE function scales the 640x390 image to 1280x800(panel resolution) and display full screen.

※Note

1. When you compare the circle chart or the camera shooting chart with DSLR connected monitor(HDMI) and HDMI to SDI Conversion connected monitor, The function of Live/Rec 16:9 mode should be selected to compare circle and it is equal to its actual. If the circle is compared in Live/Rec Full mode, the output of the circle is deformed.
2. Both VFM-058W connected DSLR and VFM-058W connectedHDMI to SDI Conversion should be compared to cirle in Zeroscan mode. It is deformed if user selects in Overscan and Underscan mode.

• NIKON (D7000)

- In StandBy/Record mode of NIKON, actual resolution of the output signal from HDMI terminal is 952x634, failing to display 16:9 aspect ratio and making marginal blank area. Activating DSLR SCALE function will scale the 952x634 raster image to fill the full screen.

• SONY (A77)

- In StandBy/Record mode of SONY, actual resolution of the output signal from HDMI terminal is 1440x810. Activating DSLR SCALE function will scale the 1440x810 raster image to fill the full screen.



7. Other Functions

[9] HDMI To SDI Conversion-Out

- Video source from 'HDMI input' terminal can be output through 'SDI throughout' terminal.

*Note: HDSLR camera manufacturers usually specify the resolution and frame rate for the recording. The signal format that is output through HDMI terminal of cameras may differ from makers to makers. The signal format for HDMI output and playback function of Canon HDSLRs is 59.94i. And even though 60i or 60p is specified in the specification of the cameras, the actual recording or HDMI output format would be 59.94i or 59.94p.

Input Format \ Output Format	480i(NTSC)	576i(PAL)	480P	576P	720P50	720P59.94	720P60	1080i50	1080i59.94	1080i60	1080p24	1080p25	1080p30	1080psF24	1080p50	1080p59.94	1080p60
480i(NTSC)	●																
576i(PAL)		●															
480P	●																
576P		●															
720P50					●												
720P59.94						●											
720P60							●										
1080i50								●									
1080i59.94									●								
1080i60										●							
1080p24											●						
1080p25												●					
1080p30													●				
1080psF24																	
1080p50														●			
1080p59.94															●		
1080p60																●	

7. Other Functions

[10] SDI To HDMI Conversion-Out

- Video source from 'SDI input' terminal can be output through 'HDMI out' terminal.

Input Format \ Output Format	480i(NTSC)	576i(PAL)	720P24	720P25	720P30	720P50	720P59.94	720P60	1080i50	1080i59.94	1080i60	1080p24	1080p25	1080p30	1080psF24	1080p50	1080p59.94	1080p60
480i(NTSC)	●																	
576i(PAL)		●																
720P24																		
720P25																		
720P30																		
720P50						●												
720P59.94							●											
720P60								●										
1080i50									●									
1080i59.94										●								
1080i60											●							
1080p24												●						
1080p25												●						
1080p30												●						
1080psF24																●		
1080p50																	●	
1080p59.94																		●
1080p60																		●

7. Other Functions

[11] Screen TALLY

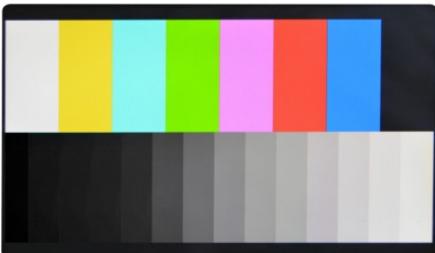
- Activates with the Rear Tally on the rear of the monitor at the same time.
- Screen TALLY On/Off
 - Used to set Tally operation according to the input level of TALLY IN terminal which is among the terminals of XLR 4P connector in the rear.
- Screen TALLY Operating Level
 - Used to set the input level of Tally operation. (Open&Low : less than 0.6V, High : more than 2.5V)
 - High: Set the level as "High" to activate the Tally and set the level as "Low" to inactivate the Tally.
 - Low: Set the level as "Low" to activate the Tally and set the level as "High" to inactivate the Tally.
- Screen TALLY Color
 - Used to set Tally color.
 - Available colors are Red, Green and Yellow.



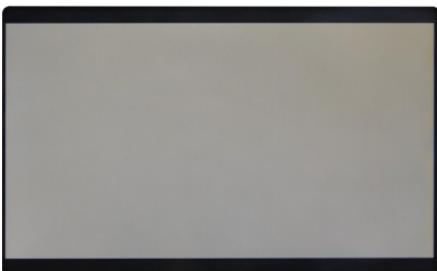
<Screen TALLY On>

[12] Internal Pattern

- Displays internally generated test patterns.
- The pattern consists of ColorBar and Pluge+ Grayscale Patterns. Full screen colors of various gray levels(0~100%) are also embedded.



<Color Bar + Pluge Pattern>



<Gray Pattern>

7. Other Functions

[13] Firmware Upgrade



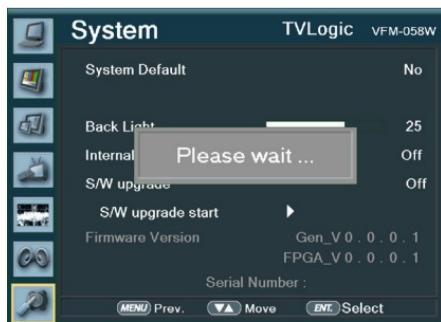
- **USB memory stick(Thumb drive) that has F/W is necessary.**

- **Select Display&Set menu**

- Connect USB memory stick to USB slot in front of the monitor.
- Set [S/W upgrade] as [On].

- If USB memory stick is connected correctly, [S/W upgrade start] is activated.

* if the item is not activated, please disconnect and connect the USB memory stick again.
After 5 sec. do the same procedure.



- The monitor searches USB memory stick.



- Select [Yes] in [S/W upgrade start] and proceed the firmware update.

* During the update, the monitor screen is off, and nothing functions.

* After the update, TVLogic logo shows up on the screen, and the monitor initializes.

* Update can take 10~20min. depending on firmware kind.

8. Available Signal Formats

This unit is applicable to the following signal formats :

	Input Signal	"Display Character Example"	SDI	HDMI
VIDEO	480 / 59.94i (NTSC)	720x480 60i	●	●
	480 / 60p	720x480 60p		●
	576 / 50i (PAL)	720x576 50i	●	●
	576 / 50p	720x576 50p		●
	720 / 23.98p	1280x720 24p	●	
	720 / 24p	1280x720 24p	●	
	720 / 25p	1280x720 25p	●	
	720 / 30p	1280x720 30p	●	
	720 / 50p	1280x720 50p	●	●
	720 / 59.94p	1280x720 60p	●	●
	720 / 60p	1280x720 60p	●	●
	1035 / 59.94i	1035 / 60i	●	
	1035 / 60i	1035 / 60i	●	
	1080 / 23.98PsF	1920x1080 48i	●	
	1080 / 24PsF	1920x1080 48i	●	
	1080 / 25PsF	1920x1080 50i	●	
	1080 / 23.98p	1920x1080 24p	●	●
	1080 / 30PsF	1920x1080 60i	●	
	1080 / 29.97PsF	1920x1080 60i	●	
	1080 / 24p	1920x1080 24p	●	●
	1080 / 25p	1920x1080 25p	●	●
	1080 / 29.97p	1920x1080 30p	●	●
	1080 / 30p	1920x1080 30p	●	●
	1080 / 50i	1920x1080 50i	●	●
	1080 / 50p	1920x1080 25p	●	●
	1080 / 59.94i	1920x1080 60i	●	●
	1080 / 60i	1920x1080 60i	●	●
	1080 / 59.94p	1920x1080 60p	●	●
	1080 / 60p	1920x1080 60p	●	●
PC	640 x 400 (70Hz)	640x400 70p		●
	640 x 480 (60Hz)	640x480 60p		●
	640 x 480 (75Hz)	640x480 75p		●
	800 x 600 (60Hz)	800x600 60p		●
	800 x 600 (75Hz)	800x600 75p		●
	1024 x 768 (60Hz)	1024x768 60p		●
	1024 x 768 (70Hz)	1024x768 70p		●
	1024 x 768 (75Hz)	1024x768 75p		●
	1280 x 768 (60Hz)	1280x768 60p		●
	1280 x 800 (60Hz)	1280x800 60p		●
	1280 x 1024 (60Hz)	1280x1024 60p		●
	1920 x 1080 (60Hz)	1920x1080 60p		●

9. Product Specifications

		VFM-058W
LCD	Size	5.5"
	Resolution	1920 X 1080 (16:9)
	Pixel Pitch	0.063(H) X 0.063(W) mm
	Color Depth	16.7M (True), 24bit
	Viewing Angle	H : 160 degrees / V : 160 degrees
	Luminance of white	450 cd/ m ² (Center)
	Contrast Ratio	1000 : 1
	Display Area	121(H) X 68(V) mm
Input Connector	1 X HDMI	HDMI Input
	1 X BNC	SDI Channel Input
Output	1 X HDMI	HDMI-HDMI, SDI-HDMI (Conversion)
	1 X BNC	SDI Channel(Active Loop Through), HDMI-SDI(Conversion)
Input Signal	Analog	Composite Video / S-Video / Component Video
	3G-SDI	2.970Gbps
	HD-SDI	1.485Gbps
	SD-SDI	270 Mbps
	HDMI	480i / 480p / 576i / 576p / 720p / 1080i / 1080p
SDI Input Signal Formats	SMPTE-425M-A/B	1080p(60/59.94/50/30/29.97/25/24/23.98/30sF/29.97sF/25sF/24sF/23.98sF) 1080i(60/59.94/50)
	SMPTE-274M	1080i (60/59.94/50)
		1080p (30/29.97/25/24/24sF/23.98/23.98sF)
	SMPTE-296M	720p (60/59.94/50)
	SMPTE-260M	1035i (60/59.94)
	SMPTE-125M	480i (59.94)
	ITU-R BT.656	576i (50)
Audio In	Embedded Audio	
Audio Out	Analog Stereo (Phone Jack), Internal speaker (Mixed Mono)	
Power	DC 6.8~12V	
Power Consumption (Approx.)	8.4 Watts(Typ.)	
Operating Temperature	0°C to 40°C (32°F to 104°F)	
Storage Temperature	-20°C to 60°C (-4°F to 140°F)	
Main Body Dimensions (mm/inch)	156 X 98 X 32.6 (6.14 X 3.85 X 1.28)	
Box Dimensions (mm/inch)	225 X 155 X 128 (8.85 X 6.10 X 5.03)	
Weight	0.38Kg / 0.83 lbs	
Basic Accessories	Acrylic Filter, DC Power adapter, AC Power Cord, BNC Connector (Angle Type), Camera Mount	
Optional Accessories	Carrying Case, Sun-Hood, Tripod Ball Head, HDMI Bracket, Battery Bracket, V-Mount, D-Tap cable	

* The specification above may be changed without notice.

* When using a DC Adapter other than the one supplied by the manufacturer, please be advised that the adapter with DC 12V/3A ~ 6A can be compatible with the monitor.

10. Optional Accessories



Sun-Hood



HDMI Bracket



D-Tap Cable



Carrying Case



V-Mount



Tripod
Ball Head



Acrylic Filter



Battery Bracket



Battery Bracket-2EA



Battery Bracket

* battery Brackets

- BB-058S (SONY : NF-F770/970)
- BB-058U (SONY : BP-U30/U60)
- BB-058C (CANON : BP930/945/970G)
- BB-058E (CANON : 5D/7D)-2EA
- BB-058P (PANASONIC : D28S/54S)
- BB-058B (PANASONIC : AF-100)-2EA
- BB-058AA (AA)

MEMO

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